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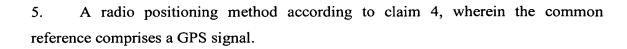
CLAIMS

A method of generating a list of offsets in time, phase, frequency, or derivatives thereof, or their equivalents expressed as offsets in distance or derivatives thereof, of a plurality of transmission source signals, received at a given location, relative to a common reference, the method comprising

- (a) acquiring data from one or more receivers, the positions of which may be known or determined, the data from a receiver comprising offsets in time, phase, frequency, or derivatives thereof, respectively of signals received from the transmission sources relative to a reference source in each receiver or to each other; and
- (b) combining the acquired data and calculating the list of offsets relative to the common reference.

A method of generating a list of offsets in time, phase, frequency, or derivatives thereof, or their equivalents expressed as offsets in distance or derivatives thereof, of a plurality of transmission source signals, received at a given location, relative to a common reference, the method comprising

- (a) acquiring data from one or more receivers, the positions of which may be known or determined, the data from a receiver being representative of the received signals;
- (b) determining from the acquired data the offsets in time, phase, frequency, or derivatives thereof, respectively of signals received from the transmission sources relative to a reference source or to each other; and
- (c) combining the offsets so determined and calculating the list of offsets relative to the common reference.
- 3. A radio positioning method for determining the position of one or more receivers the positions of which are unknown, which method includes the method of claim 1 or claim 2.
 - 4. A radio positioning method according to claim 3, wherein the common reference comprises an external reference.



- A radio positioning method according to any of claims 3 to 5, wherein the step 6. of acquiring data from said one or more receivers includes instigating acquisition of said data from a common location.
- 7. A radio positioning method according to any of claims 3 to 5, wherein the step of acquiring data from said one or more receivers includes instigating acquisition of 10 said data from each said receiver at times determined by each said receiver.
 - Apparatus for generating a list of offsets in time, phase, frequency, or derivatives thereof, or their equivalents expressed as offsets in distance or derivatives thereof, of a plurality of transmission source signals, received at a given location, relative to a common reference, the apparatus comprising
 - (a) means for acquiring data from one or more receivers, the positions of which may be known or determined, the data from a receiver comprising offsets in time, phase, frequency, or derivatives thereof, respectively of signals received from the transmission sources relative to a reference source in each receiver or to each other; and
 - means for combining the acquired data and calculating the list of (b) offsets relative to the common reference.
- 9. Apparatus for generating a list of offsets in time, phase, frequency, or derivatives thereof, or their equivalents expressed as offsets in distance or derivatives thereof, of a plurality of transmission source signals, received at a given location, relative to a common reference, the apparatus comprising
 - means for acquiring data from one or more receivers, the positions of (a) which may be known or determined, the data from a receiver being representative of the received signals;
 - (b) means for determining from the acquired data the offsets in time, phase, frequency, or derivatives thereof, respectively of signals received from the transmission sources relative to a reference source or to each other; and

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- (c) means for combining the offsets so determined and calculating the list of offsets relative to the common reference.
- 10. A radio positioning system including apparatus according to claim 8 or to claim 9.
 - 11. A radio positioning system according to claim 10, wherein the common reference comprises a reference external to said receivers.
- 10 12. A radio positioning system according to claim 11, wherein the common reference comprises a GPS signal.
 - 13. A radio positioning system according to any of claims 10 to 12, wherein the means for acquiring data from said one or more receivers includes a computer system arranged to instigate the transfer of said data from said one or more receivers to said computer system at times determined by said computer system.
 - 14. A radio positioning system according to any of claims 10 to 13, wherein the means for acquiring data from said one or more receivers includes a computer system, and including means for instigating said acquisition of data from each said receiver at times determined by each said receiver.
 - 15. A digital telephone network, including a radio positioning system according to any of claims 10 to 14.